

## Patent Abstracts of Japan

PUBLICATION NUMBER : 59050334  
PUBLICATION DATE : 23-03-84

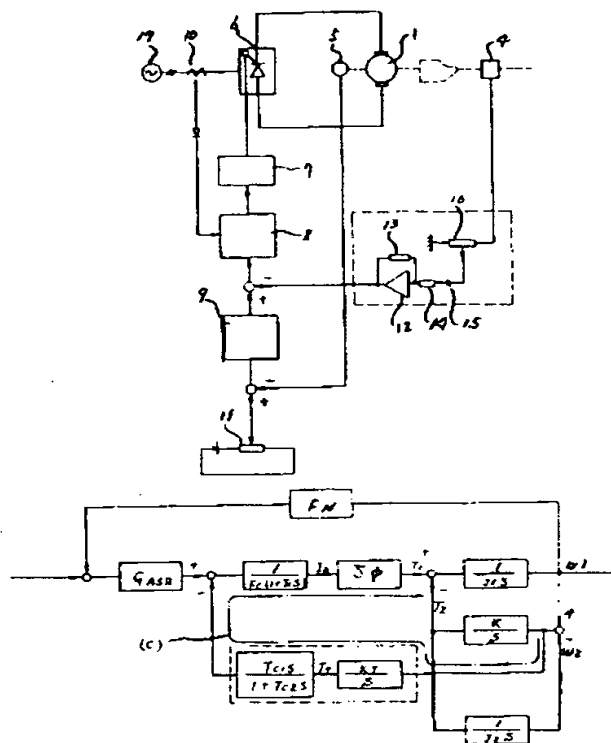
APPLICATION DATE : 16-09-82  
APPLICATION NUMBER : 57159556

APPLICANT : HITACHI LTD;

INVENTOR : ITO JIRO;

INT.CL. : G01M 13/02 F16F 15/10 H02P 5/06 //  
G01H 1/10

TITLE : TORSIONAL VIBRATION DAMPING  
CONTROL DEVICE OF SHAFT



ABSTRACT : PURPOSE: To obtain a torsional vibration damping control device of a shaft which can secure a response stability, by using a torque feedback signal from a torque meter, as a means for obtaining a damping element by a control system, and damping a resonance peak value in the resonance angular frequency, by the control system.

CONSTITUTION: TT is a torque value of a feedback signal from a torque meter T/Q4. TT is differentiated, is fed back to a minor ACR, and a closed loop of (c) is constituted. A rotation feedback signal detected by a PG5 is butted with a pattern signal of a rotation setting device 11, its deviation is amplified by an ASR controlling circuit 9, and thereafter, a firing angle of a thyristor rectifying device 6 is controlled through a minor ACR circuit 8 and a pulse phase device 7, and a rotation of a DCMM 1 is controlled. The feedback signal from the T/Q4 is fed back to the minor ACR circuit 8 through an analog differentiator constituted of a calculation amplifier 12, calculation resistors 13, 14, a calculation capacitor 15 and a gain adjusting variable resistor 16. 10 is a current transformer, 17 is an AC power source, and the loop (c) is constituted concretely.

COPYRIGHT: (C)1984,JPO&Japio